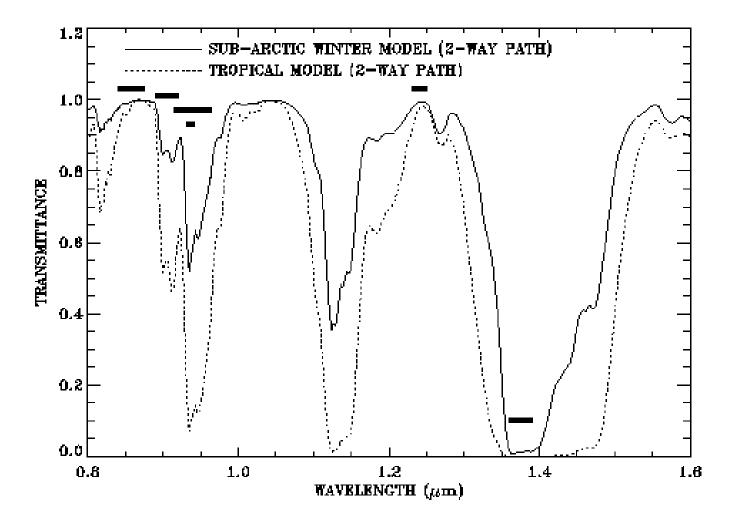
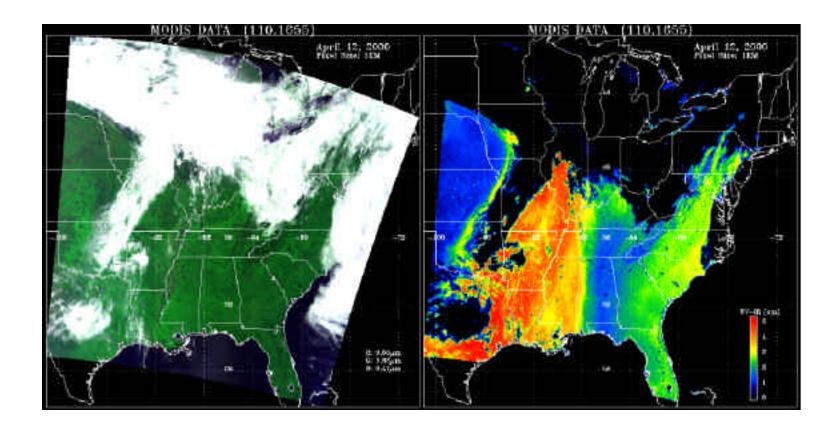
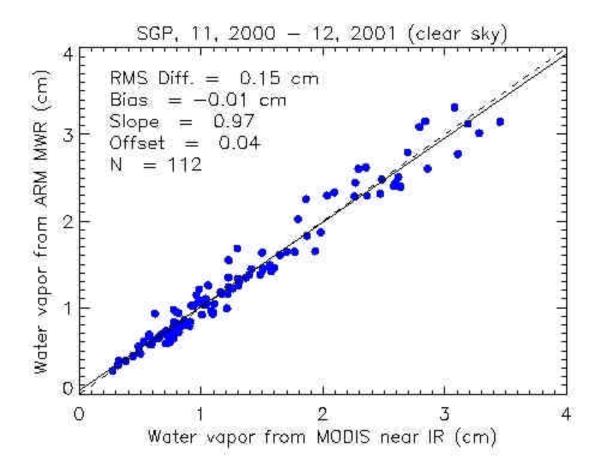
MODIS Near-IR Water Vapor Algorithm and Cirrus Reflectance Algorithm Status

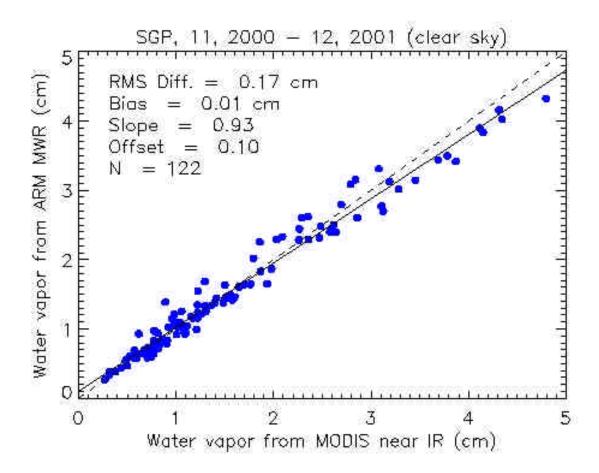
Bo-Cai Gao¹, Yong Han², Po Li², Ping Yang³, Yoram J. Kaufman⁴, and Warren J. Wiscombe⁴

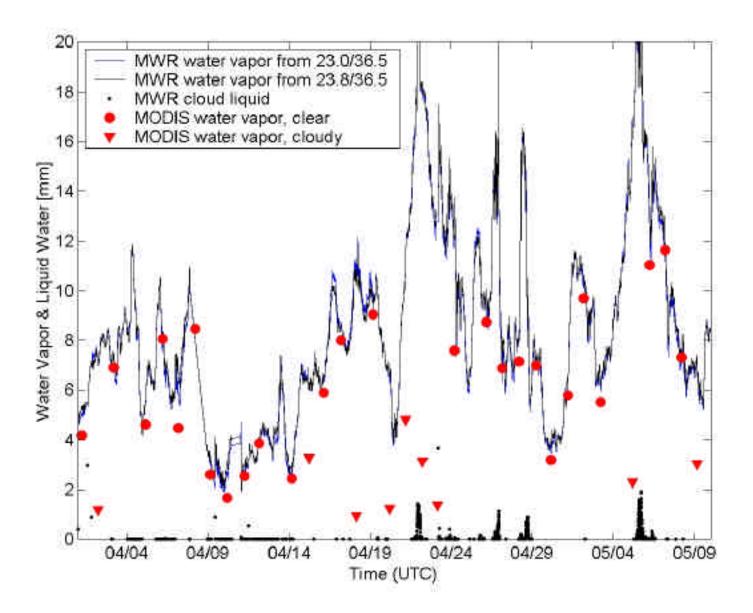
¹Remote Sensing Division, Code 7212, Naval Research Laboratory, Washington, DC ²SSAI and Code 913, NASA Goddard Space Flight Center, Greenbelt, MD ³Department of Atmospheric Sciences, Texas A&M University, College Station, TX ⁴Climate & Radiation Branch, NASA Goddard Space Flight Center, Greenbelt, MD



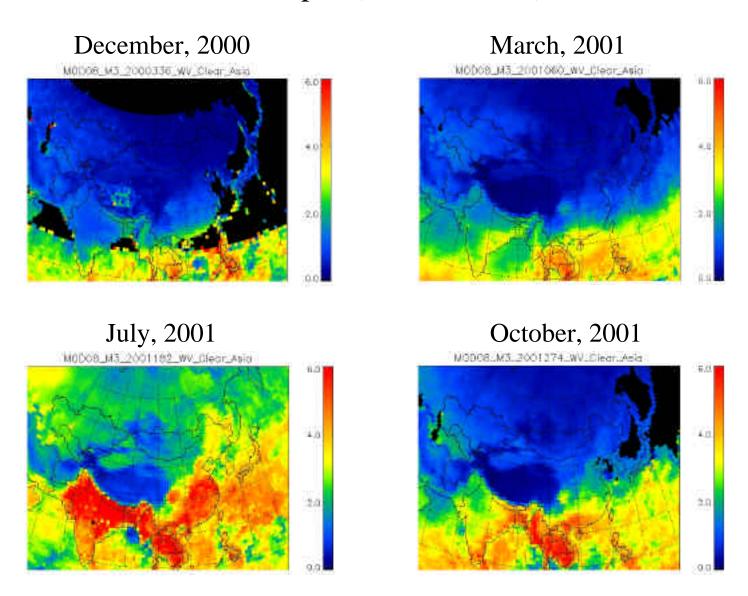








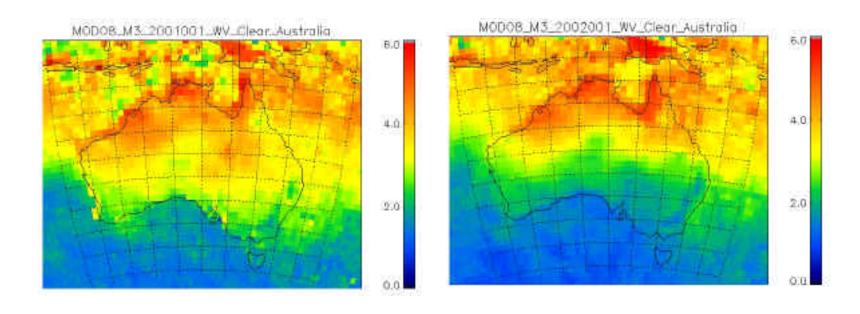
Water Vapor (Asia, near-IR)



Water Vapor (Australia)

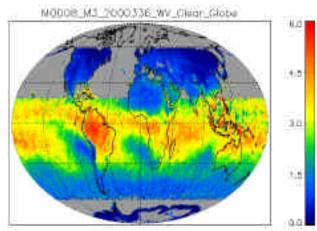
January, 2001

January, 2002

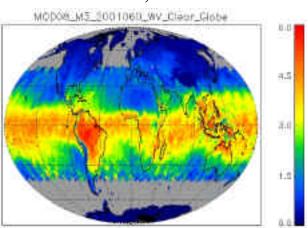


Water Vapor (Global, near-IR)

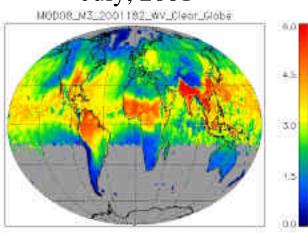




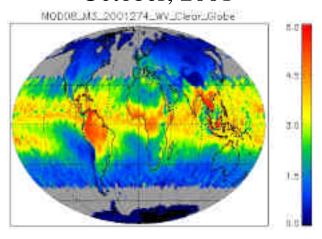
March, 2001

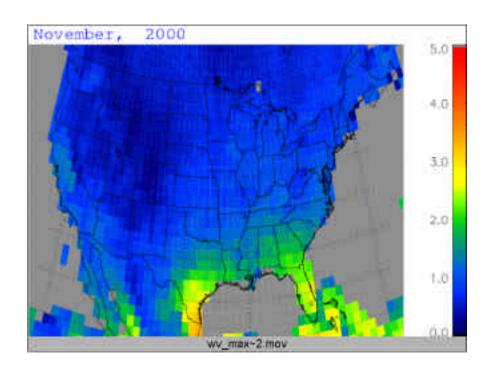


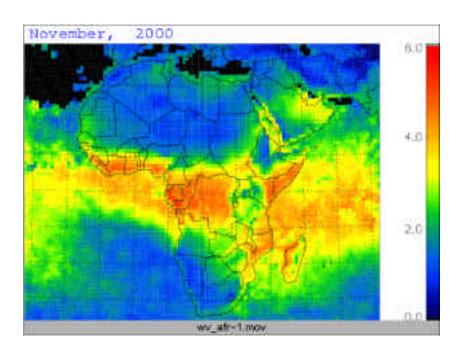
July, 2001

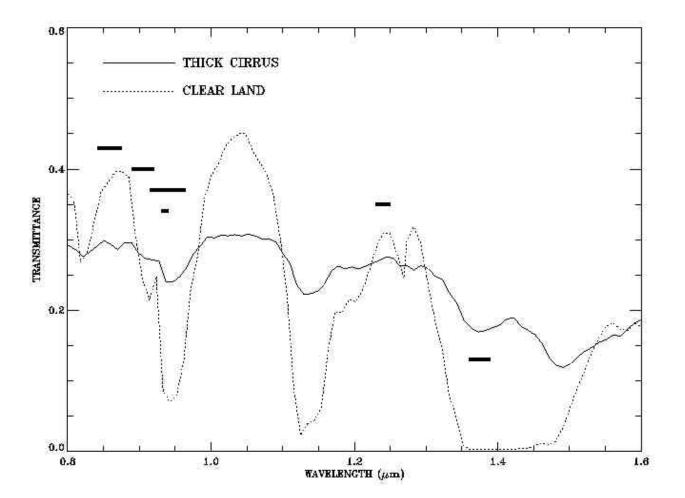


October, 2001

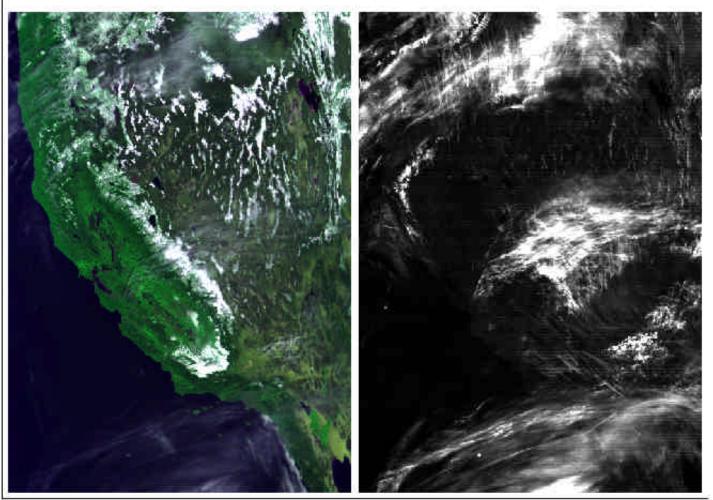




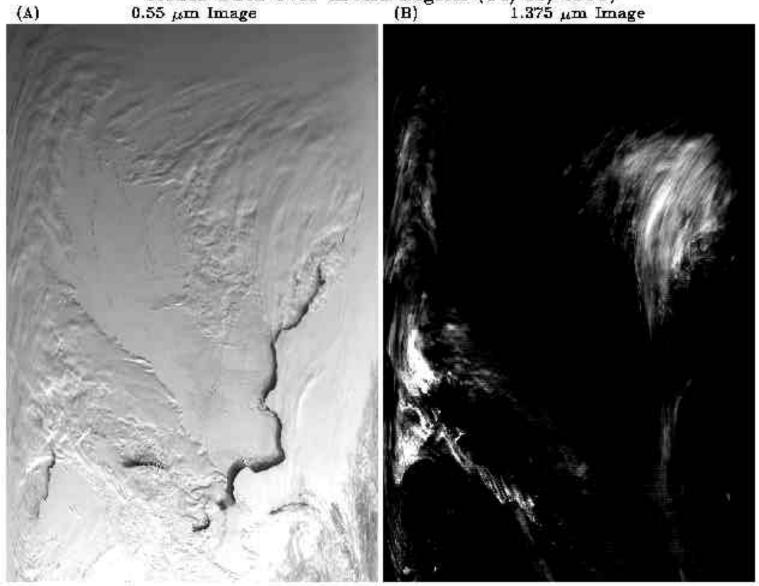




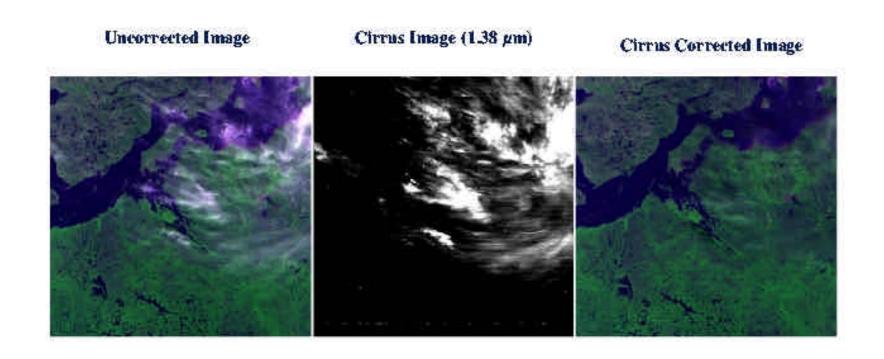
MODIS DATA (072.1910) R:0.66,G:0.86,B:0.46μm 1.38μm IMAGE (Refl. 0 - 0.1)

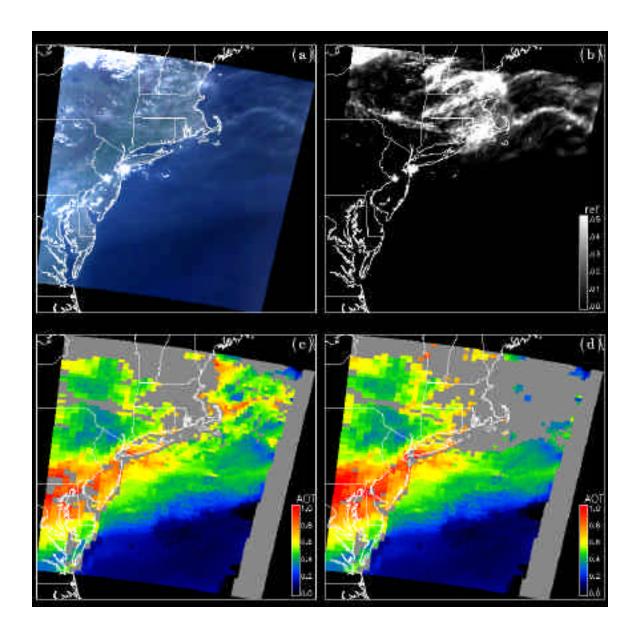


MODIS Data Over Arctic Region (04/19/2000) 0.55 μ m Image (B) 1.375 μ m Image

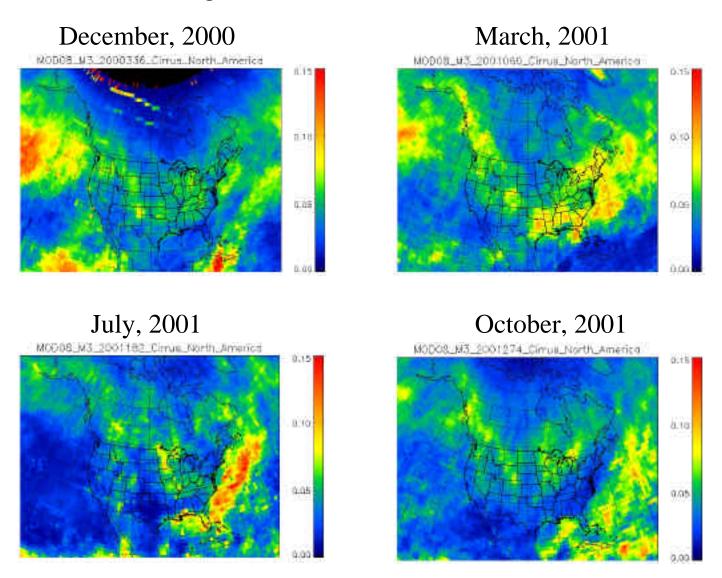


An Example of Cirrus Path Radiance Removal (MODIS Data Over Canada, 9/2/2000)





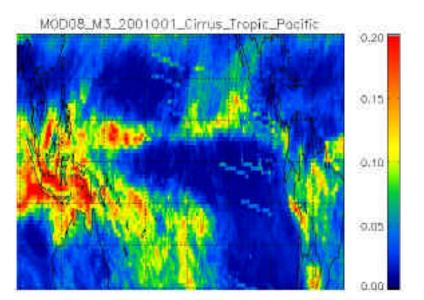
High Cloud (North America)

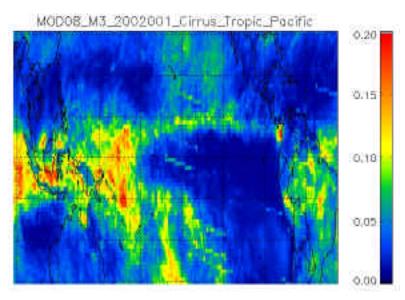


High Cloud (Tropic Pacific)

January, 2001

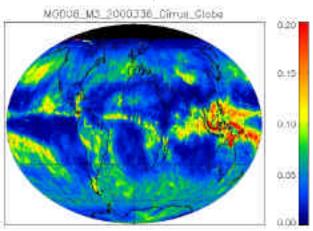
January, 2002



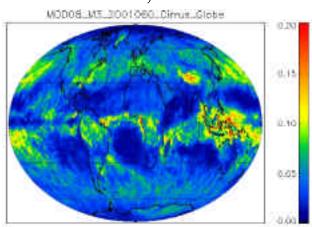


High Cloud (Global)

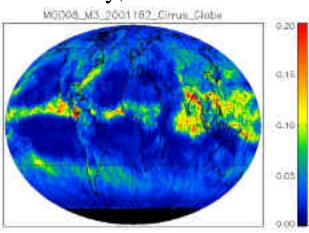




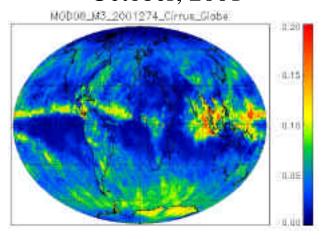
March, 2001

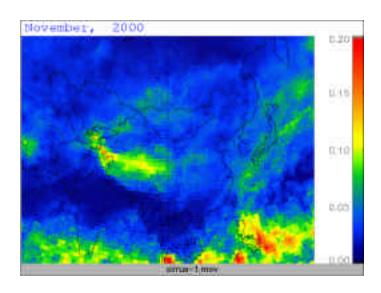


July, 2001



October, 2001





Summary

- Global water vapor and cirrus reflectance products have been derived from MODIS channels in the near-IR spectral region.
- We expect that these data products will have important applications in meteorology, hydrology, and climatology.